CLAIMS

- 1. A electronic device, comprising:
- 2 a base portion;
 - a movable portion having an edge nearest the base portion; and
- a hinge mechanism that enables the edge of the movable portion nearest the base portion to translate in relation to the base portion as the movable portion is rotated
- 6 during opening of the electronic device.
- The electronic device of claim 1 wherein the electronic device is a portable
 computer.
 - 3. The electronic device of claim 1 wherein the electronic device is a personal digital assistant.
 - 4. The electronic device of claim 1 wherein the device is a dedicated word processor.
 - 5. The electronic device of claim 1 wherein the device is a viewer for a Digital Versatile Disc.
 - 6. An electronic device, comprising:
- 2 a base portion

2

- a groove formed in the base portion;
- a movable portion having a guiding feature that engages the groove; and a link having a first link end attached to a first pivot on the base portion, and
- having a second link end attached to a second pivot on the moveable portion;
 and wherein the link constrains the relative motion of the base portion and the
 movable portion such that the electronic device opens as the guiding feature
 travels along the groove.

- 7. The electronic device of claim 6, wherein the moveable portion comprises a display screen.
- 8. The electronic device of claim 6, further comprising:
- 2 a second groove formed in the base portion;
 - a second guiding feature on the moveable portion engaging the second groove;
- 4 and

2

- a second link connecting pivots on the base portion and the movable portion.
- 9. The electronic device of claim 6, further comprising a friction-inducing device
 that resists relative motion of the base and movable portions.
 - 10. The electronic device of claim 9 wherein the friction-inducing device is a wrap spring friction clutch.
 - 11. The electronic device of claim 9, further comprising:
- a shaft journaled in the moveable portion, one end of the shaft being the guiding feature;
- a gear fixedly attached to the shaft; and
 a gear rack formed in the base portion such that the gear engages the gear rack
 when the guiding feature engages the groove.
- 12. The electronic device of claim 11, further comprising a spring wrapped around the shaft and constrained such that the spring does not rotate in relation to the moveable portion when the shaft rotates.

- 13. The electronic device of claim 9 wherein the friction-inducing device holds the
- fixed and moveable portions in a relationship set by a user of the electronic device, and enables adjustability of the relationship.
 - 14. The electronic device of claim 6 wherein the electronic device is a portable computer.
- 15. The electronic device of claim 6 wherein the electronic device is a dedicated wordprocessor.
- 16. The electronic device of claim 6 wherein the electronic device is a personal digitalassistant.
- 17. The electronic device of claim 6 wherein the electronic device is a viewer for aDigital Versatile Disc.
 - 18. An electronic device, comprising:

- 2 means for translating an edge of a moveable portion of the electronic device in relation to a base portion of the electronic device as the moveable portion is
- 4 rotated in the process of opening the electronic device; and
 means for inducing friction that resists relative motion of the movable and base
 portions.
 - 19. A hinge mechanism for an electronic device, comprising:
- a groove in a first portion of the electronic device;
 a guiding feature on a second portion of the electronic device, the guiding feature
 engaging the groove;

- a link connecting a first pivot on the first portion of the electronic device with a

 second pivot on the second portion of the electronic device and constraining the
 relative motion of the first and second portions such that the electronic device

 opens as the guiding feature travels along the groove.
 - 20. The hinge mechanism of claim 19 further comprising a friction-inducing device that resists relative motion of the two portions.
 - 21. The hinge mechanism of claim 20 wherein the friction-inducing device is a wrap spring friction clutch.
 - 22. The hinge mechanism of claim 19, further comprising:

2

- a gear rack formed in the first portion of the electronic device;
 a gear attached to the second portion coaxial with the guiding feature, the gear
 engaging the gear rack when the guiding feature engages the groove; and
 a shaft fixedly attached to the gear and journaled in the second portion of the
 electronic device.
- 23. The hinge mechanism of claim 22, further comprising a spring wrapped around
 the shaft such that friction between the spring and shaft resists rotation of the shaft.